

A new species of the genus *Carpathonesticus* (Aranei Nesticidae)  
from the East Carpathians of the Ukraine.

Новый вид рода *Carpathonesticus* (Aranei Nesticidae)  
из Восточных Карпат Украины.

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КЛЮЧЕВЫЕ СЛОВА: Nesticidae, Украина, *Carpathonesticus*, новый вид.

ABSTRACT: A new cavernicolous species of Nesticidae from the Ukrainian Carpathians is described, *Carpathonesticus galotshkai* sp.n., which belongs to the *fodinarum* species group.

РЕЗЮМЕ: Из Украинских Карпат описан новый вид пещерного паука из семейства Nesticidae, *Carpathonesticus galotshkai* sp.n., принадлежащий к группе видов *fodinarum*.

The genus *Carpathonesticus* currently comprises 21 species inhabiting caves of Southeast Europe [Kratochvil, 1933; Dumitrescu, 1979, 1980; Lehtinen, Saaristo, 1980; Weiss, Heimer, 1982; Weiss, 1983], except for *C. tamajevae* Marusik, 1987, and *C. eriashvili* Marusik, 1987, found in the Caucasus [Marusik, 1987]. While studying the spider material collected by R. Vargovitch, of the Uzhgorod State University, as part of a complex research project on the cave fauna of the Transcarpathian Area (= Zakarpatye) of the Ukraine, I have come across a new species of *Carpathonesticus*. The present paper deals with its description.

The following abbreviations have been accepted in the text: ant. — anterior, post. — posterior, med. — medial, lat. — lateral. All measurements are given here in mm. Scale — 0.1 mm. The sequence of leg segments in measurement data is as follows: femur + patella + metatarsus + tarsus.

Type material is shared between the collections of the Institute of Zoology of the Ukrainian Academy of Sciences, Kiev (IZUAS), and the Zoological Museum of the Moscow State University (ZMUM).

Family Nesticidae

Genus *Carpathonesticus* Lehtinen et Saaristo, 1980.

*Carpathonesticus galotshkai* Evtushenko, sp.n.  
Fig. 1a-c.

MATERIAL. Holotype: ♂ (IZUAS): Ukraine, Transcarpathian Area (= Zakarpatye), Rahov Distr., Delovoye, Tcheremshina Cave, 30 m deep, 10.04.1990, leg. R. Vargovitch. — Paratypes: 1 ♂ (ZMUM), 1 ♀ (IZUAS), same locality, together with holotype, leg. R. Vargovitch.

DESCRIPTION. MALE. Total length 4.70. Carapace 2.20 long, 1.87 wide, light brownish-yellow, with a grey marking around anteromedial eyes, a dark wedge-shaped marking behind posterior eyes, and a dark borderline. Basal segment of chelicerae 0.86 long. Clypeus 0.41 long. Diameter of eyes: ant. med. 0.09, ant. lat. 0.13, post. med. 0.09, post. lat. 0.13. Distance between eyes: ant. med. 0.06, post. med. 0.16, ant. med./post. med. 0.09, ant. med./ant. lat. 0.07, post. med./post. lat. 0.09. Legs pale brown, femora I-IV distally, tibiae I-IV proximally and distally, metatarsus IV distally with pale grey markings. Leg I 18.40 long (5.20 + 0.95 + 5.35 + 5.10 + 1.80), leg II 14.25 long (4.20 + 0.90 + 4.00 + 3.70 + 1.45), leg III 10.45 long (3.15 + 0.70 + 2.65 + 2.75 + 1.20), leg IV 14.30 long (4.65 + 0.85 + 3.80 + 3.60 + 1.40). Palp (Fig. 1a,c): tibia dorsally with a blade-shaped outgrowth. Paracymbium smooth, pointed. Sternum 1.28 long, 1.14 wide, greyish-yellow with a V-shaped yellow marking, covered by long and sparse hairs. Abdomen 2.60 long, 1.75 wide, light whitish-yellow, with grey paired patches and bars.

FEMALE. Total length 5.50. Carapace 3.90 long, 3.05 wide. Basal segment of chelicerae 0.88 long. Clypeus 0.38 long. Diameter of eyes: ant. med. 0.07, ant. lat. 0.10, post. med. 0.09, post. lat. 0.13. Distance between eyes: ant. med. 0.09, post. med. 0.13, ant. med./post. med. 0.09, ant. med./ant. lat. 0.07, post. med./post. lat. 0.09. Leg I 14.57

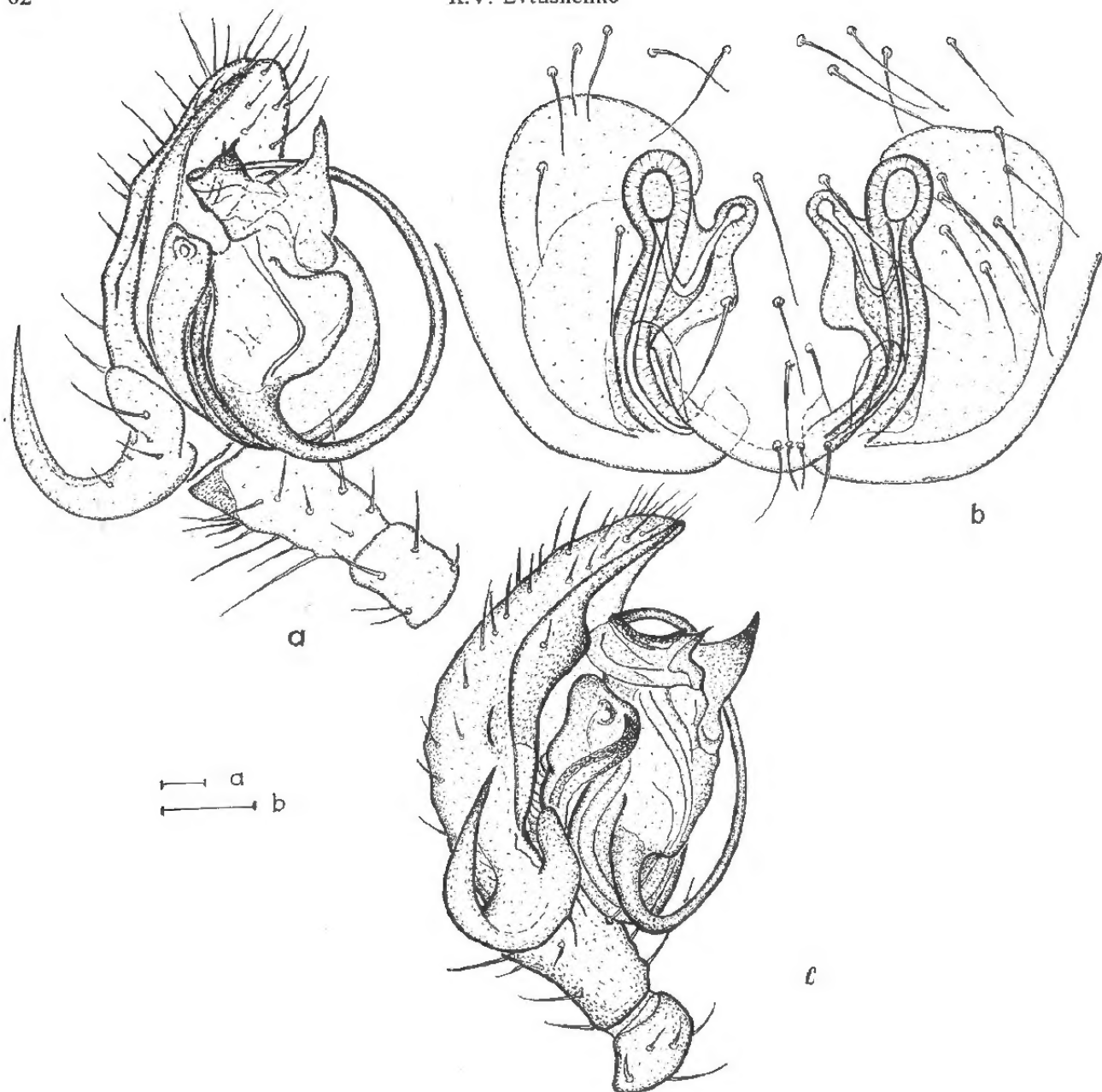


Fig. 1. *Carpathonesticus galotshkai* sp.n.; a, c — right palp (holotype), b — epigyne (paratype).

Рис. 1. *Carpathonesticus galotshkai* sp.n.; a, c — правая пальпа (голотип), b — эпигина (паратип).

long (4.15 + 0.82 + 4.20 + 3.95 + 1.45), leg II 11.39 long (3.38 + 0.77 + 3.02 + 2.87 + 1.35), leg III 8.41 long (2.62 + 0.67 + 1.95 + 2.20 + 0.97), leg IV 11.50 long (3.80 + 0.75 + 2.80 + 2.90 + 1.25). Sternum 1.14 long, 1.00 wide. Abdomen 3.50 long, 2.85 wide. Epigyne as in Fig. 1b. Body and leg coloration as in ♂, but dark markings on metatarsi I-III absent.

**DIAGNOSIS.** The new species belongs to the *fodinarum* species group sensu Lehtinen & Saaristo [1980]. *C. galotshkai* sp.n. is closely related to *C. cernensis* (Dumitrescu, 1979) and *C. ionescui* (Dumitrescu, 1979), but differs from other members

of the *fodinarum*-group by the absence of teeth on the paracymbium, by certain structural details of the conductor, terminal apophysis, and epigyne.

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